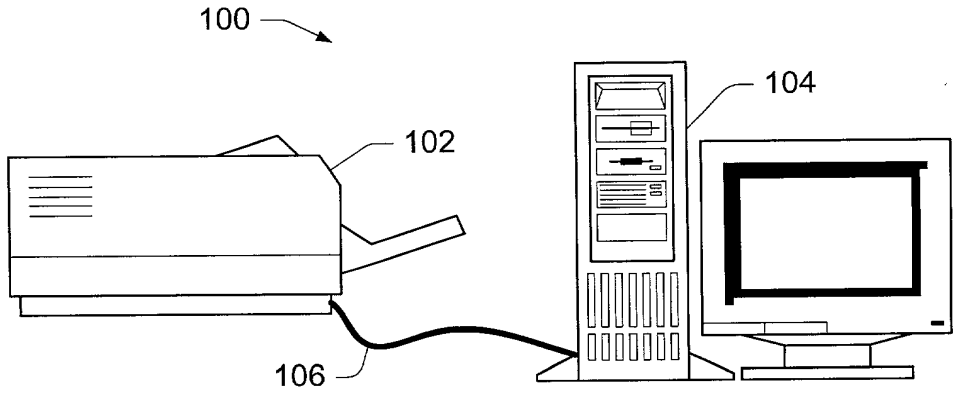
100
102
104
106

Fig. 1

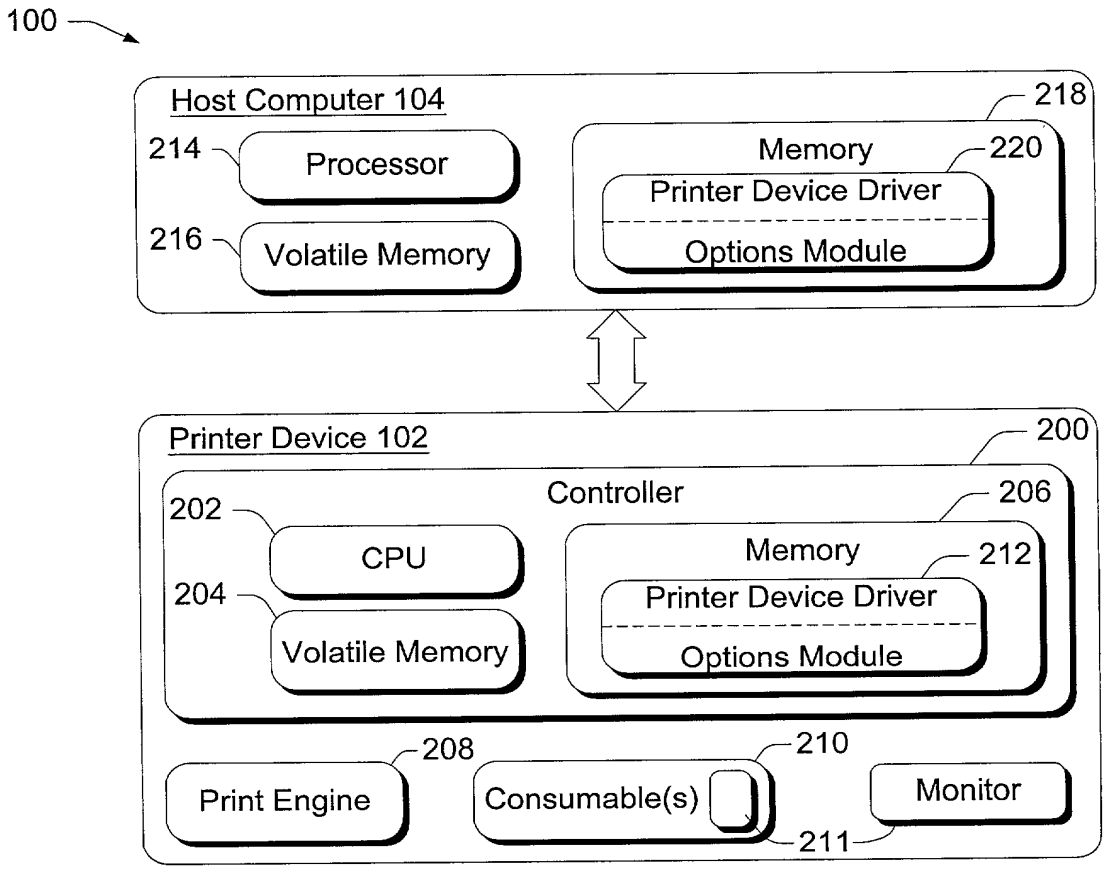
100
Host Computer 104
218
214
Processor
Memory
220
Printer Device Driver
216
Volatile Memory
Options Module
Printer Device 102
200
Controller
206
202
CPU
Memory
212
204
Printer Device Driver
Volatile Memory
Options Module
208
210
Print Engine
Consumable(s)
Monitor
211

Fig. 2

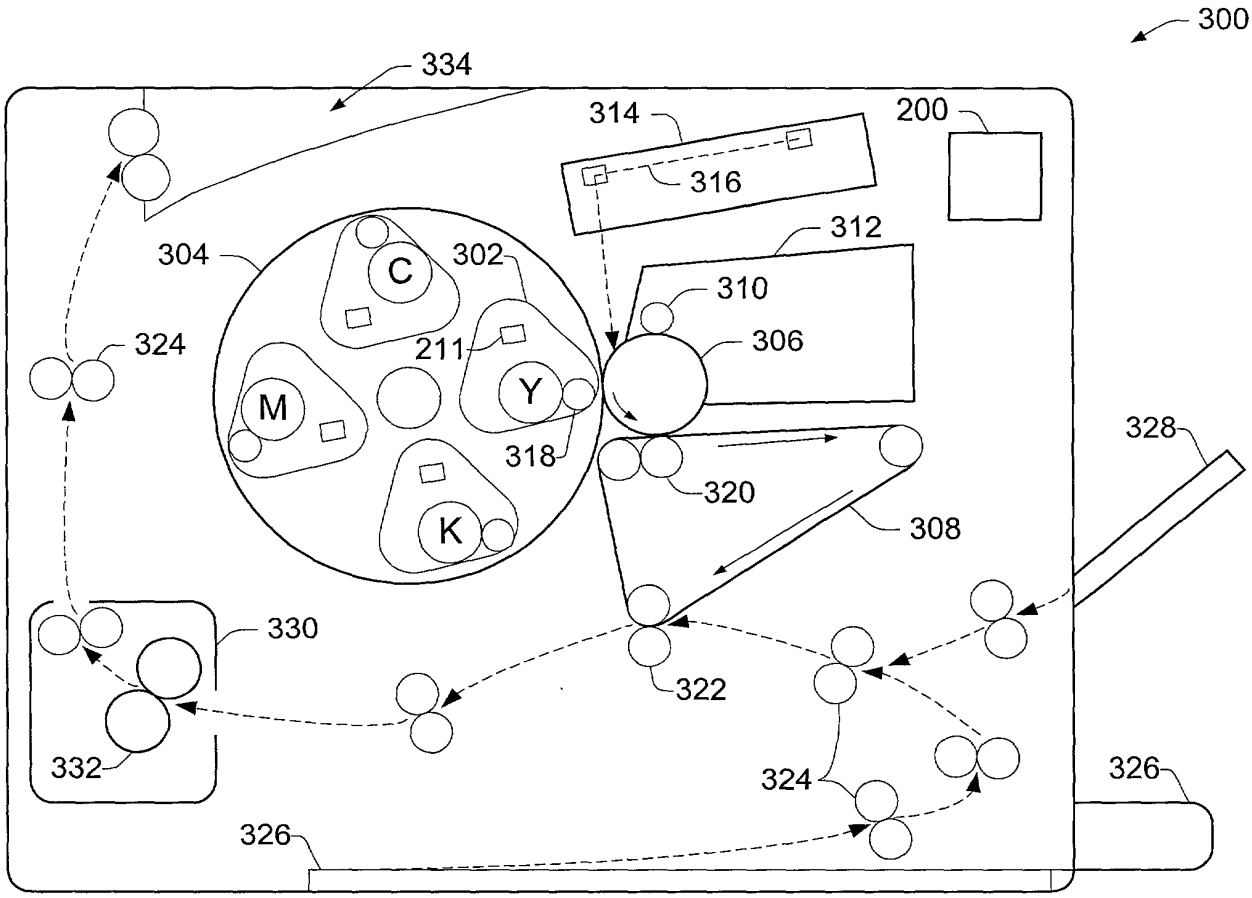
300
334
314
316
200
312
304
302
C
310
306
324
211
M
Y
318
328
320
308
K
330
322
332
324
326
326

Fig. 3

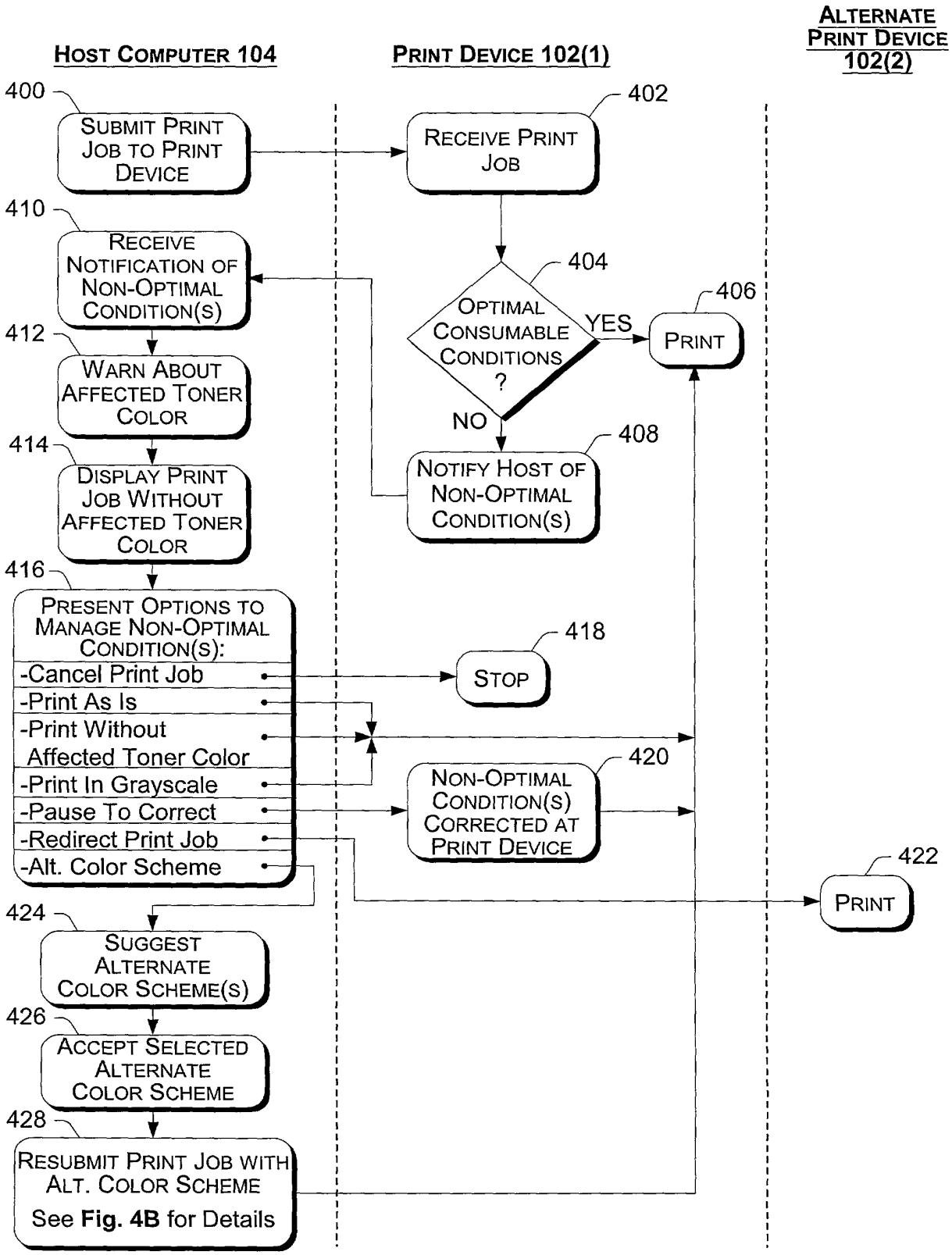
HOST COMPUTER 104
PRINT DEVICE 102(1)
ALTERNATE PRINT DEVICE 102(2)
400
SUBMIT PRINT JOB TO PRINT DEVICE
402
RECEIVE PRINT JOB
410
RECEIVE NOTIFICATION OF NON-OPTIMAL CONDITION(S)
404
OPTIMAL CONSUMABLE CONDITIONS ?
YES
406
PRINT
412
WARN ABOUT AFFECTED TONER COLOR
NO
408
NOTIFY HOST OF NON-OPTIMAL CONDITION(S)
414
DISPLAY PRINT JOB WITHOUT AFFECTED TONER COLOR
416
PRESENT OPTIONS TO MANAGE NON-OPTIMAL CONDITION(S):
-Cancel Print Job
-Print As Is
-Print Without Affected Toner Color
-Print In Grayscale
-Pause To Correct
-Redirect Print Job
-Alt. Color Scheme
418
STOP
420
NON-OPTIMAL CONDITION(S) CORRECTED AT PRINT DEVICE
422
PRINT
424
SUGGEST ALTERNATE COLOR SCHEME(S)
426
ACCEPT SELECTED ALTERNATE COLOR SCHEME
428
RESUBMIT PRINT JOB WITH ALT. COLOR SCHEME
See Fig. 4B for Details

Fig. 4A

HOST COMPUTER 104

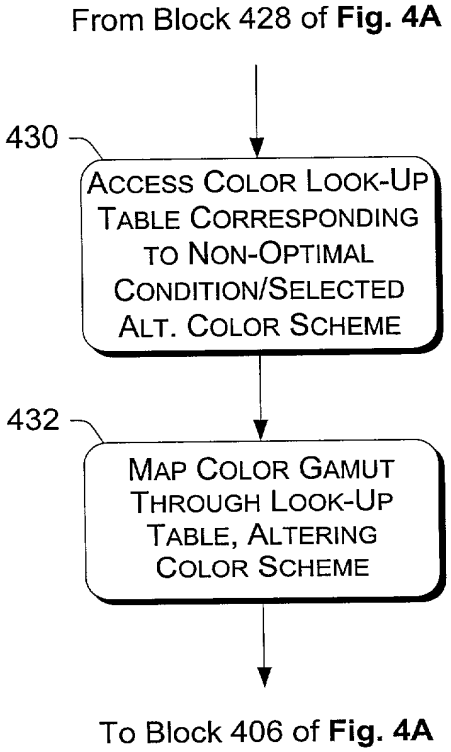

Fig. 4B

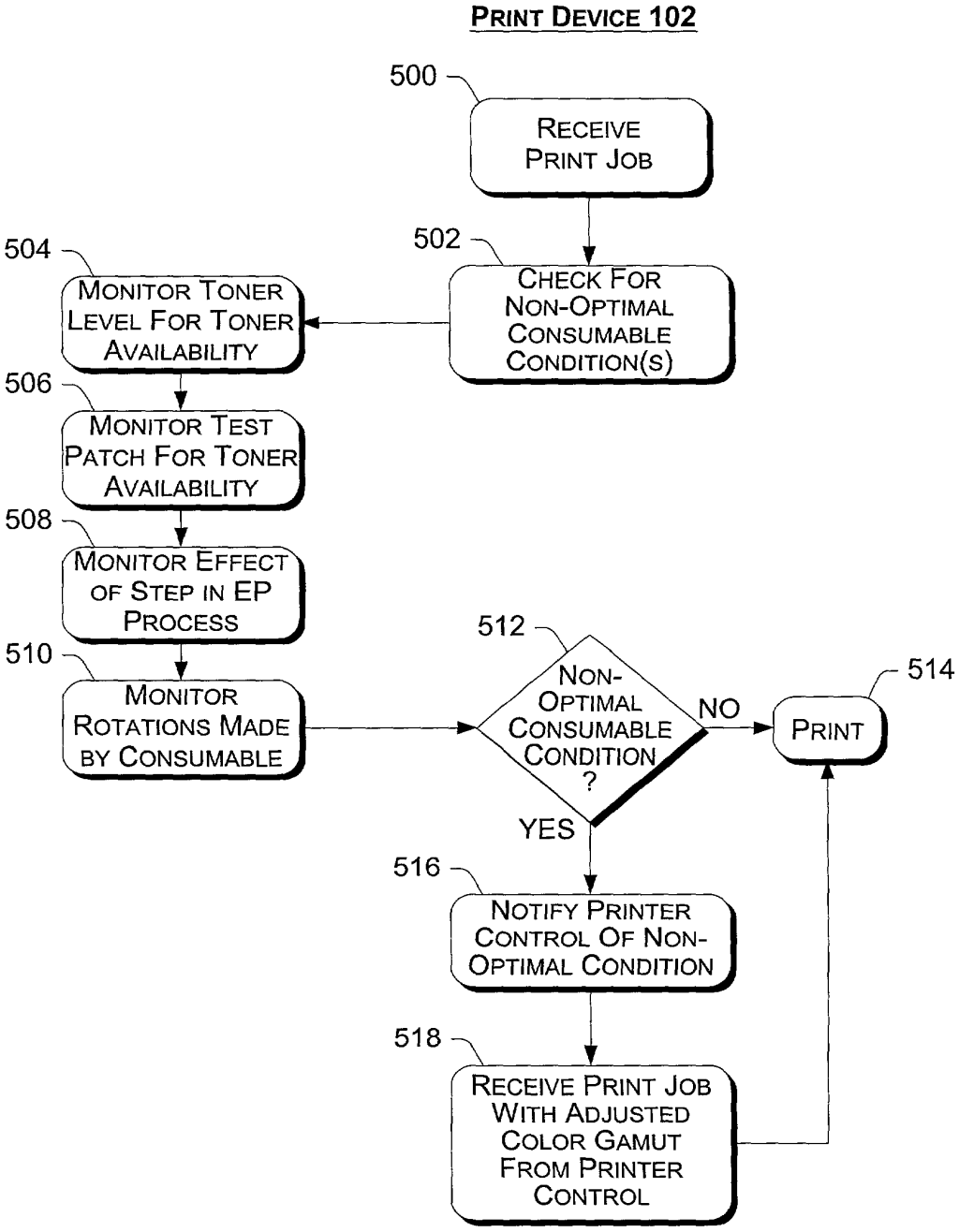
PRINT DEVICE 102
500
RECEIVE PRINT JOB
502
CHECK FOR NON-OPTIMAL CONSUMABLE CONDITION(S)
504
MONITOR TONER LEVEL FOR TONER AVAILABILITY
506
MONITOR TEST PATCH FOR TONER AVAILABILITY
508
MONITOR EFFECT OF STEP IN EP PROCESS
510
MONITOR ROTATIONS MADE BY CONSUMABLE
512
NON-OPTIMAL CONSUMABLE CONDITION ?
NO
YES
514
PRINT
516
NOTIFY PRINTER CONTROL OF NON-OPTIMAL CONDITION
518
RECEIVE PRINT JOB WITH ADJUSTED COLOR GAMUT FROM PRINTER CONTROL

Fig. 5